

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>P11831-PCT</b>	<div style="display: flex; justify-content: space-between;"> <div> <b>FOR FURTHER ACTION</b> </div> <div>           see Form PCT/ISA/220            as well as, where applicable, item 5 below.         </div> </div>
International application No. <b>PCT/KR2004/001723</b>	<div style="display: flex; justify-content: space-between;"> <div>           International filing date (<i>day/month/year</i>)  <b>12 JULY 2004 (12.07.2004)</b> </div> <div>           (Earliest) Priority Date (<i>day/month/year</i>)  <b>12 JULY 2003 (12.07.2003)</b> </div> </div>
Applicant  <b>SAMSUNG ELECTRONICS CO., LTD. et al</b>	

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (See Box No. III)

4. With regard to the **title**,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 4A
- ☒ as suggested by the applicant.
- ☐ because the applicant failed to suggest a figure.
- ☐ because this figure better characterizes the invention.
- b. ☐ none of the figure is to be published with the abstract.

**A. CLASSIFICATION OF SUBJECT MATTER****IPC7 H04L 12/56**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H04L, H04M, G11B, G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and Applications for Inventions since 1975

Korean Utility Models and Applications for Utility Models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

IEEEL(IEEE/IEE Electronic Library)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,515,985B1(Airslide System Ltd.) 04. February 2003 : abstract, figures, description, claims	1-23
A	US 6,574,213B1(Texas Instruments Inc.) 03. June 2003 : abstract, figures, summary of the invention claims	1-23
A	US 6,590,885B1(Malibu Networks Inc.) 08. July 2003 abstract, description claims	1-23
A	US 5,414,796B1(Qualcomm Inc.) 9. May 1995 : abstract, description claims	1-23



Further documents are listed in the continuation of Box C.



See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

28 OCTOBER 2004 (28.10.2004)

Date of mailing of the international search report

**30 OCTOBER 2004 (30.10.2004)**

Name and mailing address of the ISA/KR

Korean Intellectual Property Office  
920 Dunsan-dong, Seo-gu, Daejeon 302-701,  
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

LEE, Saang Woong

Telephone No. 82-42-481-5687



**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

PCT/KR2004/001723

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6,515,985B1	04. 02. 2003	US2001/36173A1	01.11.2001
US 6,574,213B1	03. 06. 2003	None	
US 6,590,885B1	08. 07. 2003	None	
US 5,414,796B1	09. 05. 1995	None	